

AMENDMENTS TO SPECIFICATION

Page 1, lines 8-12:

The present invention relates to a ~~voice~~speech recognition system, and more particularly relates to a ~~voice~~speech recognition system that is insensitive to external noise, carries out an efficient calculation, and is applicable to actual life thereby.

Page 1, lines 16-18:

Recently, as the technique of ~~voice~~speech recognition field is developed, the usage of ~~voice~~speech recognition is diversified.

Page 1, lines 19-20:

FIG. 1 is a block diagram roughly illustrating the structure of a prior ~~voice~~speech recognition system.

Page 1, line 21 to Page 2, line 3:

As described in FIG. 1, a ~~voice~~speech recognition system mainly comprises a characteristic extraction section (2) and a recognizer (4). In other words, a prior characteristic extraction method such as a linear prediction coding analysis (LPC) has been used for an input voice signal characteristic extraction, and a hidden Markov Model (HMM) receiver has been widely used.

Page 2, lines 4-10:

In addition, as a ~~voice~~speech recognition system applicable to real electronic products, a ~~voice~~speech recognition system using an auditory model and a neural network has been developed. One of the prior ~~voice~~speech recognition systems having the features described above is disclosed ~~on a~~ in Korean patent No. 180651 registered on Dec. 2 in 1998.

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Page 3, lines 6-12:

However, since the prior ~~voice~~speech recognition system described above employs LPC method or the like as a characteristic extraction method and HMM as a recognizer, it has difficulties in embodying an ASIC. And it is therefore difficult to be applied to actual life because it has to handle software only or construct a complex system using DSP.

Page 3, line 22 to Page 4, line 8:

The present invention is proposed to solve the problems of the prior art mentioned above. It is therefore the object of the present invention to provide a ~~voice~~speech recognition system that is insensitive to external noise and applicable to actual life by using auditory model and a neural network. It is another object of the present invention to provide a ~~voice~~speech recognition system of which the power consumption is small and the efficiency is high by employing a FIR filter and establishing a filter-bank with only additions and shift-operations by using powers-of-two conversion.

Page 5, lines 10-11:

FIG. 1 is a block diagram roughly illustrating the structure of a prior ~~voice~~speech recognition system.

Page 5, lines 12-14:

FIG. 2 is a block diagram illustrating the structure of an embodiment of the ~~voice~~speech recognition system in accordance with the present invention.

Page 5, lines 18-19:

FIGS. ~~4 is a view~~ 4A and 4B are views illustrating the characteristic extraction method.

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Page 6, lines 10-12:

FIG. 2 is a block diagram illustrating the structure of an embodiment of the ~~voice~~speech recognition system in accordance with the present invention.

Page 6, line 13 to Page 7, line 1:

Referring to FIG. 2, a ~~voice~~speech recognition system in accordance with the present invention comprises an FIR filtering section (10) that receives input signals from an A/D converter, a characteristic extraction section (20) connected to the FIR filtering section (10), a clock generating section (5) that outputs clocks to the FIR filtering section (10) and the characteristic extraction section (20), a word boundary detection section (30) connected to the characteristic extraction section (20), a normalization/recognition section (40) connected to the word boundary detection section (30), and a SRAM that is connected to the word boundary detection section (30) and to the normalization/recognition section (40).

Page 9, line 18 to Page 10, line 1:

The normalization block receives the addresses of the start-point and the end-point from the end-point extraction block and normalizes them into ~~16 channels~~ 16 channels, 64 frames to have predetermined energies. In addition, after obtaining the output values of 50 standard words by inputting the normalized data into a neural network of radial basis function (RBF), it codes the word having the maximum value among the output values into 6-bit and outputs it.

Page 16, lines 11-13:

As mentioned thereinbefore, the present invention provides a ~~voice~~speech recognition system having the following advantageous characteristics: